

Certificate of Analysis

Date of Testing: 2023-11-15 15:49:41

Date of Next Testing: 2026-11-14 15:49:41

Product Name: (11bR)-8,9,10,11,12,13,14,15-Octahydro-N,N-dimethyl-dinaphtho[2,1-d:1',2'-f][1,3,2]dioxaphosphopin-4-amine

CAS Number: 444311-00-6

Specifications & Purity: 95% 99%ee

Lot #: K2309396

SKU #: R589140

Analysis: 273288

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Enantiomeric Excess	99-100 (%)	99.95400 %
Purity(HPLC area)	95-100 (%)	97.59 %
NMR Spectrum 1H	Conforms to structure	Conforms to Structure
LC-MS for identification	Conforms	Conforms



John Su
QA & QC Manager